

CLAIMS

What is claimed is:

- 1 1. A wireless mobile phone comprising:
 - 2 a plurality of light emitting devices (LEDs);
 - 3 a visualization controller coupled to the LEDs to selectively activate and
 - 4 deactivate the LEDs as requested; and
 - 5 at least one visualization client coupled to the visualization controller to request
 - 6 the visualization controller to selectively activate and deactivate the LEDs in at least one
 - 7 desired manner to effectuate visualization of at least one non-visual aspect of wireless
 - 8 mobile telephony.
 - 1 2. The wireless mobile phone of claim 1, wherein the wireless mobile phone further
 - 2 comprises display means of a second type, in addition to said LEDs, for displaying
 - 3 alphanumeric data including menu and commands.
 - 1 3. The wireless mobile phone of claim 1, wherein said at least one visualization
 - 2 client comprises an event visualization client, said at least one non-visual aspect of
 - 3 wireless mobile telephony to be visualized comprises an incoming call being placed to
 - 4 the wireless mobile phone, and said visualization comprises a pattern of activation and
 - 5 deactivation of the LEDs to denote the arrival of the incoming call.

1 4. The wireless mobile phone of claim 1, wherein said at least one visualization
2 client comprises an event visualization client, said at least one non-visual aspect of
3 wireless mobile telephony to be visualized comprises menu item selection, and said
4 visualization comprises a pattern of activation and deactivation of the LEDs denoting a
5 key stroking pattern corresponding to the menu item selected.

1 5. The wireless mobile phone of claim 1, wherein said at least one visualization
2 client comprises a text visualization client, said at least one non-visual aspect of
3 wireless mobile telephony to be visualized comprises text messages of a non-audible
4 call, and said visualization comprises a pattern of activation and deactivation of the
5 LEDs denoting Morse code representations of the textual contents of the text
6 messages. .

1 6. The wireless mobile phone of claim 1, wherein said at least one visualization
2 client comprises an event visualization client, said at least one non-visual aspect of
3 wireless mobile telephony to be visualized comprises an idle state, and said
4 visualization comprises a predetermined pattern of activation and deactivation of the
5 LEDs.

1 7. The wireless mobile phone of claim 1, wherein said at least one visualization
2 client comprises an event visualization client, said at least one non-visual aspect of
3 wireless mobile telephony to be visualized comprises non-graphics contents being

4 rendered, and said visualization comprises a pattern of activation and deactivation of
5 the LEDs depicting various graphics.

1 8. The wireless mobile phone of claim 1, wherein said at least one visualization
2 client comprises a sound visualization client, said at least one non-visual aspect of
3 wireless mobile telephony to be visualized comprises audio being rendered, and said
4 visualization comprises a pattern of activation and deactivation of the LEDs
5 corresponding to attributes of the audio being rendered.

1 9. The wireless mobile phone of claim 1, wherein
2 said wireless mobile phone further comprises a processor to execute
3 programming instructions;
4 said visualizer controller comprises first programming instructions designed to
5 perform said selective activation and deactivation of selected ones of said LEDs as
6 requested; and
7 said at least one visualization client comprises second programming instructions
8 designed to perform said request of the visualization controller to effectuate said
9 visualization of at least one non-visual aspect of wireless mobile telephony.

1 10. The wireless mobile phone of claim 9, wherein said first programming
2 instructions of said visualization controller are designed to accept a request to
3 activate/deactivate selected ones of said LEDs in at least one of a first form singularly
4 specifying one round of activation and deactivation of said LEDs, and a second form

5 simultaneously specifying a series of rounds of activations and deactivations of said
6 LEDs.

1 11. The wireless mobile phone of claim 9, wherein said wireless mobile phone further
2 comprises a first storage medium having stored therein at least said first programming
3 instructions of said visualization controller.

1 12. The wireless mobile phone of claim 11, wherein said wireless mobile phone
2 further comprises second storage medium having stored therein at least a portion of
3 said second programming instructions of said at least one visualization client.

1 13. The wireless mobile phone of claim 12, wherein
2 said wireless mobile phone further comprises a body having one of at least two
3 designs, a first design where at least a face plate of said body is substitutable with any
4 one of a plurality of embodiments of said face plate and a second design where said
5 body is at least partially coverable by a selected one of a plurality of embodiments of a
6 covering skin; and
7 each of said embodiments of said face plate and covering skin comprises an
8 electronic component including at least said second storage medium.

1 14. The wireless mobile phone of claim 13, wherein said electronic component
2 further comprises said first storage medium.

1 15. The wireless mobile phone of claim 14, wherein first and second storage medium
2 are the same storage medium.

1 16. The wireless mobile phone of claim 13, wherein each of said embodiments of
2 said face plate and covering skin comprises a front facing exterior surface, and said
3 LEDs being disposed on said front facing exterior surface.

1 17. The wireless mobile phone of claim 1, wherein said wireless mobile phone further
2 comprises a body having an exterior surface, and said LEDs being disposed on said
3 exterior surface.

1 18. The wireless mobile phone of claim 17, wherein said exterior surface is a
2 selected one of a front exterior surface, a back exterior surface, a side exterior surface,
3 a top exterior surface, and a bottom exterior surface of said body of said wireless mobile
4 phone.

1 19. The wireless mobile phone of claim 1, wherein said wireless mobile phone further
2 comprises a key pad having a plurality of keys, and said LEDs being integrally disposed
3 with said keys.

1 20. The wireless mobile phone of claim 1, wherein said LEDs comprises single color
2 LEDs of a plurality of colors, organized into groups.

1 21. The wireless mobile phone of claim 1, wherein said LEDs comprises at least one
2 multi-color LED.

1 22. A wireless mobile phone comprising:
2 a plurality of light emitting devices (LEDs);
3 a visualization controller coupled to the LEDs to selectively activate and
4 deactivate the LEDs as requested; and
5 an event visualization client coupled to the visualization controller to request the
6 visualization controller to selectively activate and deactivate the LEDs in a desired
7 manner to effectuate visualization of an event of wireless mobile telephony.

1 23. The wireless mobile phone of claim 22, wherein the wireless mobile phone
2 further comprises display means of a second type, in addition to said LEDs, for
3 displaying alphanumeric data including menu and commands.

1 24. The wireless mobile phone of claim 22, wherein the event comprises at least a
2 selected one of an incoming call, and a selection of a menu item.

1 25. The wireless mobile phone of claim 22, wherein
2 said wireless mobile phone further comprises a processor to execute
3 programming instructions;

4 said visualizer controller comprises first programming instructions designed to
5 perform said selective activation and deactivation of selected ones of said LEDs as
6 requested; and

7 said event visualization client comprises second programming instructions
8 designed to perform said request of the visualization controller to effectuate said
9 visualization of an event of wireless mobile telephony.

1 26. The wireless mobile phone of claim 25, wherein said wireless mobile phone
2 further comprises a first storage medium having stored therein at least said first
3 programming instructions of said visualization controller.

1 27. The wireless mobile phone of claim 26, wherein said wireless mobile phone
2 further comprises second storage medium having stored therein said second
3 programming instructions of said event visualization client.

1 28. The wireless mobile phone of claim 27, wherein
2 said wireless mobile phone further comprises a body having one of at least two
3 designs, a first design where at least a face plate of said body is substitutable with any
4 one of a plurality of embodiments of said face plate and a second design where said
5 body is at least partially coverable by a selected one of a plurality of embodiments of a
6 covering skin; and
7 each of said embodiments of said face plate and covering skin comprises an
8 electronic component including at least said second storage medium.

1 29. A wireless mobile phone comprising:
2 a plurality of light emitting devices (LEDs);
3 a visualization controller coupled to the LEDs to selectively activate and
4 deactivate the LEDs as requested; and
5 a text visualization client coupled to the visualization controller to request the
6 visualization controller to selectively activate and deactivate the LEDs in a desired
7 manner to effectuate visualization of textual contents of wireless mobile telephony.

1 30. The wireless mobile phone of claim 29, wherein the wireless mobile phone
2 further comprises display means of a second type, in addition to said LEDs, for
3 displaying alphanumeric data including menu and commands.

1 31. The wireless mobile phone of claim 29, wherein said textual contents comprise at
2 least a selected one of textual messages of a non-audible call, and textual contents of a
3 web page.

1 32. The wireless mobile phone of claim 29, wherein
2 said wireless mobile phone further comprises a processor to execute
3 programming instructions;
4 said visualizer controller comprises first programming instructions designed to
5 perform said selective activation and deactivation of selected ones of said LEDs as
6 requested; and

7 said text visualization client comprises second programming instructions
8 designed to perform said request of the visualization controller to effectuate said
9 visualization of textual messages of wireless mobile telephony.

1 33. The wireless mobile phone of claim 32, wherein said wireless mobile phone
2 further comprises a first storage medium having stored therein at least said first
3 programming instructions of said visualization controller.

1 34. The wireless mobile phone of claim 33, wherein said wireless mobile phone
2 further comprises second storage medium having stored therein said second
3 programming instructions of said text visualization client.

1 35. The wireless mobile phone of claim 34, wherein
2 said wireless mobile phone further comprises a body having one of at least two
3 designs, a first design where at least a face plate of said body is substitutable with any
4 one of a plurality of embodiments of said face plate and a second design where said
5 body is at least partially coverable by a selected one of a plurality of embodiments of a
6 covering skin; and
7 each of said embodiments of said face plate and covering skin comprises an
8 electronic component including at least said second storage medium.

1 36. A wireless mobile phone comprising:
2 a plurality of light emitting devices (LEDs);

3 a visualization controller coupled to the LEDs to selectively activate and
4 deactivate the LEDs as requested; and
5 a sound visualization client coupled to the visualization controller to request the
6 visualization controller to selectively activate and deactivate the LEDs in a desired
7 manner to effectuate visualization of audio of wireless mobile telephony.

1 37. The wireless mobile phone of claim 36, wherein the wireless mobile phone
2 further comprises display means of a second type, in addition to said LEDs, for
3 displaying alphanumeric data including menu and commands.

1 38. The wireless mobile phone of claim 36, wherein said audio comprises at least a
2 selected one of audio output of a radio, audio being rendered by a MPx player, and
3 audio being streamed to the wireless mobile phone.

1 39. The wireless mobile phone of claim 36, wherein
2 said wireless mobile phone further comprises a processor to execute
3 programming instructions;
4 said visualizer controller comprises first programming instructions designed to
5 perform said selective activation and deactivation of selected ones of said LEDs as
6 requested; and

7 said sound visualization client comprises second programming instructions
8 designed to perform said request of the visualization controller to effectuate said
9 visualization of audio of wireless mobile telephony.

1 40. The wireless mobile phone of claim 39, wherein said wireless mobile phone
2 further comprises a first storage medium having stored therein at least said first
3 programming instructions of said visualization controller.

1 41. The wireless mobile phone of claim 40, wherein said wireless mobile phone
2 further comprises second storage medium having stored therein said second
3 programming instructions of said sound visualization client.

1 42. The wireless mobile phone of claim 41, wherein
2 said wireless mobile phone further comprises a body having one of at least two
3 designs, a first design where at least a face plate of said body is substitutable with any
4 one of a plurality of embodiments of said face plate and a second design where said
5 body is at least partially coverable by a selected one of a plurality of embodiments of a
6 covering skin; and
7 each of said embodiments of said face plate and covering skin comprises an
8 electronic component including at least said second storage medium.

1 43. A wireless mobile phone comprising:
2 means for emitting light;

3 visualization control means coupled to the light emitting means to selectively
4 activate and deactivate the light emitting means as requested; and
5 visualization client means coupled to the visualization control means to request
6 the visualization control means to selectively activate and deactivate the light emitting
7 means in a desired manner to effectuate visualization of one or more non-visual
8 aspects of wireless mobile telephony.

1 44. The wireless mobile phone of claim 43, wherein the wireless mobile phone
2 further comprises display means of a second type, in addition to said light emitting
3 means, for displaying alphanumeric data including menu and commands.

41 45. The wireless mobile phone of claim 43, wherein said non-visual aspects
52 comprise at least one of an event, a textual content, an audio being rendered.

51 46. The wireless mobile phone of claim 43, wherein the wireless mobile phone
2 further comprises a radio for receiving and rendering radio programs, and said
3 visualization client being also coupled to the radio, selectively requests said
4 visualization control means to activate and deactivate the light emitting means in a
5 desired manner to effectuate visualization of the radio programs being rendered.

1 47. An article of manufacture comprising
2 a skin designed to at least partially cover a body of a wireless mobile phone; and

3 an electronic component embedded in said skin, the electronic component
4 including storage medium having stored therein at least first programming instructions
5 implementing a visualization client that requests a visualization controller to selectively
6 activate and deactivate a plurality of light emitting devices (LEDs) to visualize a non-
7 visual aspect of wireless mobile telephony.

1 48. The wireless mobile phone of claim 47, wherein said visualization client is one of
2 an event visualization client, a text visualization client, and a sound visualization client.

1 49. The wireless mobile phone of claim 47, wherein said storage medium further has
2 stored therein second programming instructions implementing said visualization
3 controller.

1 50. The wireless mobile phone of claim 47, wherein said storage medium further has
2 stored therein second programming instructions implementing a MPx player.

1 51. The wireless mobile phone of claim 47, wherein each of said embodiments of
2 said face plate and covering skin comprises a front facing exterior surface, and said
3 LEDs being disposed on said front facing exterior surface.

1 52. A method comprising:
2 monitoring a non-visual aspect of wireless mobile telephony; and

3 selectively activating and deactivate a plurality of light emitting devcies (LEDs) to
4 visualize the non-visual of wireless mobile telephony based at least in part on the result
5 of said monitoring.

1 53. The method of claim 51, wherein said non-visual aspects comprise an incoming
2 event, and said visualization comprises a pattern of selective activation and deactivation
3 of the LEDs denoting the arrival of the incoming call.

1 54. The method of claim 51, wherein said non-visual aspects comprise a menu item
2 selection event, and said visualization comprises a pattern of selective activation and
3 deactivation of the LEDs corresponding to a key stroking pattern to effectuate said
4 menu item selection via the key stroking pattern.

1 55. The method of claim 51, wherein said non-visual aspects comprise an idle event,
2 and said visualization comprises a pattern of selective activation and deactivation of the
3 LEDs corresponding to a theme.

1 56. The method of claim 51, wherein said non-visual aspects comprise textual
2 content of a non-audio call, and said visualization comprises a pattern of selective
3 activation and deactivation of the LEDs corresponding to Morse code representations of
4 the textual content.

1 57. The method of claim 51, wherein said non-visual aspects comprise textual
2 content of a web page, and said visualization comprises a pattern of selective activation
3 and deactivation of the LEDs depicting one or more graphics to complement the textual
4 content.

1 58. The method of claim 51, wherein said non-visual aspects comprise sounds being
2 rendered, and said visualization comprises a pattern of selective activation and
3 deactivation of the LEDs corresponding to one or more attributes of the sound being
4 rendered.

1 59. The method of claim 51, wherein said sounds are being rendered by a selected
2 one of a radio of the wireless mobile phone, and a MPx player of the wireless mobile
3 phone.